97. (NEW) The method of claim 1 wherein the DNA-RNA hybrids are comprised of a DNA molecule that comprises at least one ribonucleotide or its analog.

98. (NEW) The method of claim 97 wherein the ribonucleotide is uracil.

99. (NEW) The method of claim 1 wherein the DNA-RNA hybrids are comprised of an RNA molecule that comprises at least one deoxyribonucleotide or its analog.

100. (NEW) The method of claim 1 wherein the DNA-RNA hybrids are comprised of a number of species of the DNA-RNA hybrids, wherein each species has a different nucleic acid sequence than another.

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101. (NEW) The method of claim 100 wherein the number of species ranges from two to ten.

102. (NEW) The method of claim 22 wherein the cDNA-aRNA hybrids are comprised of at least one nucleotide analog.

102. (NEW) The method of claim 101 wherein the nucleotide analog is selected from the group consisting of inosine, xanthine, hypoxanthine, labeled nucleotide, 7-deaza-dNTP, deoxyuracil, methylthio-linked nucleotide, phosphothio-linked nucleotide, morpholino nucleotide, hexose-containing nucleotide, peptide nucleic acid (PNA), and viral genome nucleic acid.

103. (NEW) The method of claim 22 wherein the cDNA-aRNA hybrids are comprised of a DNA molecule that comprises at least one ribonucleotide or its analog.

104 (NEW) The method of claim 103 wherein the ribonucleotide is uracil.

105. (NEW) The method of claim 22 wherein the cDNA-aRNA hybrid are comprised of an RNA molecule that comprises at least one deoxyribonucleotide or its analog.

106. (NEW) The method of claim 40 wherein the DNA-RNA hybrids are comprised of at least one nucleotide analog selected from the group consisting of inosine, xanthine, hypoxanthine, labeled nucleotide, 7-deaza-dNTP, deoxyuracil, methylthio-linked nucleotide, phosphothio-linked nucleotide, morpholino nucleotide, hexose-containing nucleotide, peptide nucleic acid (PNA), and viral genome nucleic acid.

107. (NEW) The method of claim 40 wherein the DNA-RNA hybrids are comprised of a DNA molecule that comprises at least one ribonucleotide or its analog.

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108 (NEW) The method of claim 107 wherein the ribonucleotide is uracil.

109 (NEW) The method of claim 40 wherein the DNA-RNA hybrids are comprised of an RNA molecule that comprises at least one deoxyribonucleotide or its analog.

110. (NEW) The method of claim 40 wherein the DNA-RNA hybrids are comprised of a number of species of the DNA-RNA hybrids, wherein each species has a different nucleic acid sequence than another.

111. (NEW) The method of claim 110 wherein the number of species ranges from two to ten.

112. (NEW) The kit of claim 59 wherein the cDNA-aRNA hybrids are comprised of at least one nucleotide analog selected from the group consisting of inosine, xanthine, hypoxanthine, labeled nucleotide, 7-deaza-dNTP, deoxyuracil, methylthio-linked nucleotide, phosphothio-

linked nucleotide, morpholino nucleotide, hexose-containing nucleotide, peptide nucleic acid (PNA), and viral genome nucleic acid.

113. (NEW) The composition of claim 74 wherein the DNA-RNA hybrids are comprised of at least one nucleotide analog selected from the group consisting of inosine, xanthine, hypoxanthine, labeled nucleotide, 7-deaza-dNTP, deoxyuracil, methylthio-linked nucleotide, phosphothio-linked nucleotide, morpholino nucleotide, hexose-containing nucleotide, peptide nucleic acid (PNA), and viral genome nucleic acid.

114. (NEW) The composition of claim 74 wherein the DNA-RNA hybrids are comprised of a DNA molecule that comprises at least one ribonucleotide or its analog.

115. (NEW) The composition of claim 114 wherein the ribonucleotide is uracil.

116. (NEW) The composition of claim 74 wherein the DNA-RNA hybrids are comprised of an RNA molecule that comprises at least one deoxyribonucleotide or its analog.